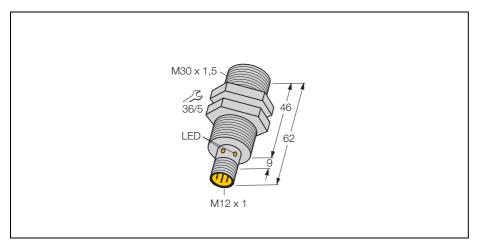


## Inductive sensor Bi15U-M30-AP6X-H1141

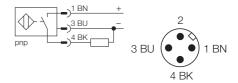




Туре	Bi15U-M30-AP6X-H1141		
Ident-No.	1636732		
Rated operating distance Sn	15 mm		
Mounting condition	flush		
Assured sensing range	≤ (0,81 x Sn) mm		
Repeatability	≤ 2 %		
Temperature drift	≤ ± 10 %		
	$\leq \pm 15 \%, \leq -25 \degree \text{C V} \geq +70 \degree \text{C}$		
Hysteresis	3 15 %		
Ambient temperature	-30+ 85 °C		
Operating voltage	10 30VDC		
Residual ripple	≤ 10 % U <sub>ss</sub>		
DC rated operational current	≤ 200 mA		
No-load current I <sub>0</sub>	≤ 15 mA		
Residual current	≤ 0.1 mA		
Rated insulation voltage	≤ 0.5 kV		
Short-circuit protection	yes / cyclic		
Voltage drop at I <sub>e</sub>	≤ 1.8V		
Wire breakage / Reverse polarity protection	yes / complete		
Output function	3-wire, normally open, pnp		
Insulation class			
Switching frequency	≤0.75 kHz		
Housing	threaded barrel, M30 x 1.5		
Dimensions	62 mm		
Housing material	metal, CuZn, chrome-plated		
Material active face	plastic, LCP-GF30		
Tightening torque of housing nut	75 Nm		
Connection	Connectors, M12 x 1		
Vibration resistance	( )		
Shock resistance	30g (11 ms)		
Degree of protection	IP68		
Display switch state	LED yellow		

- threaded barrel, M30 x 1.5
- Chrome-plated brass
- factor 1 for all metals
- degree of protection IP68
- magnetic field immune
- high switching distance
- recessed mounting possible
- 3-wire DC, 10...30 VDC
- normally open, pnp output
- connector, M12 x 1

#### Wiring diagram



### **Functional principle**

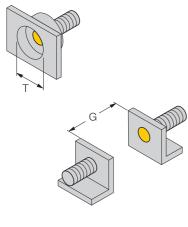
Inductive sensors are designed for wear-free and non-contact detection of metal objects. uprox+ sensors have considerable advantages due to their patented multi-coil system. They excel in highest switching distances, maximum flexibility and operational reliability as well as efficient standardisation.

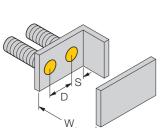


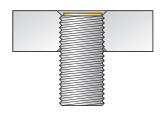
# Inductive sensor Bi15U-M30-AP6X-H1141



Mounting instructions	minimum distances	
Distance D	60 mm	
Distance W	45 mm	
Distance T	90 mm	
Distance S	45 mm	
Distance G	90 mm	
Diameter of the active area B	Ø 30 mm	







All flush mountable uprox+ threaded barrel switches allow recessed mounting Safe operation is ensured if the sensor is recessed mounted by half a turn of the thread.





### Accessories

Type code	Ident- No.	Short text	Dimension drawing
PN-M30	6905308	Screw cap; material: Stainless steel A2 1.4305 (AISI 303)	A5 10 - A100 x 1.5 281
BST-30B	6947216	fixing clamp with dead-stop; material: PA6	MS & Salar S
QM-30	6945103	quick-mount fixing clamp with dead-stop; material: chrome-plated brass male thread M36 x 1.5. Note: The switching distance of proximity switches can be reduced by the use of quick mounting brackets.	
MW-30	6945005	mounting bracket; material: stainless steel A2 1.4301 (AISI 304)	11.2 31.5 31.5 31.5 31.5 31.5 31.5 31.5
BSS-30	6901319	fixing clamp; material: polypropylene	22 10.3